

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,575	07/20/2005	Sumio lijima	2005_0065A	4026
513 WENDEROTE	7590 01/16/2008 I, LIND & PONACK, L.	I P	EXAMINER	
2033 K STREE	•	D.1 .	KELLY, ROBERT M	
SUITE 800 WASHINGTO	N, DC 20006-1021		ART UNIT	PAPER NUMBER
,			1633	
			MAIL DATE	DELIVERY MODE
			01/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		•				
	Application No.	Applicant(s)				
Office Action Summan	10/521,575	IIJIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
W. AAAII III AAAI	Robert M. Kelly	1633				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim viil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N . nely filed the mailing date of this communication. D (35.U.S.C. 8.133)				
Status						
1) Responsive to communication(s) filed on 30 Ja	nuary 2006					
_	action is non-final.	•				
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,					
4) Claim(s) <u>1-6</u> is/are pending in the application.	·					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	William Consideration.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers	- codon requirement.					
9) The specification is objected to by the Examine	·					
10) The drawing(s) filed on 18 January 2005 is/are:	· · · · · · · · · · · · · · · · · · ·	•				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	·					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority 	s have been received. s have been received in Applications ity documents have been received	on No				
application from the International Bureau						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other: See Continua					

Continuation of Attachment(s) 6). Other: Yudasaka, et al. (2003) Chemical Physics Letters, 374(1-2): 132-36.

DETAILED ACTION

Claims 1-6 are presently pending and considered.

Information Disclosure Statement

Applicant's IDS of 1/18/05 contains several references which are not non-patent references, and have not been supplied, nor has an English translation been supplied. The Examiner cannot consider the assessment of the Examiner of another country for US patentability purposes as binding on US examination.

However, in the process of examination, the Examiner obtained a copy of the Yudasaka document, and hence such reference is the only considered, and is also supplied here with this action to place such document into the record.

The following rejections are made because Applicant has not supplied an English copy of the Japanese priority document to determine if such would predate the applied art. Hence, the earliest priority date presently considered is the filing of the PCT priority application, 4/1/03.

.. Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Art Unit: 1633

Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Yudasaka, et al. (2003) Chemical Physics Letters, 374(1-2): 132-36.

Yudasaka teaches the light excitation and hydrogen peroxide oxidation of selected size nanotubes (ABSTRACT). The processes were carried out at temperatures within the range given (e.g., p. 133). The oxidizing agent was hydrogen peroxide (ABSTRACT). Moreover the nanotubes were single-walled (e.g., ABSTRACT).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yudasaka, et al. (2003) Chemical Physics Letters, 374(1-2): 132-36.

As shown Yudasaka teaches, and hence, also makes obvious claims 1-3 and 6.

With regard to Claims 4 and 5, the use of different wavelengths to selectively remove those of unwanted sizes would be obvious, as the quantum light relation is well known to the physicist and would necessarily be performable. Moreover, successive or concurrent oxidations are equally obvious because the physics of these light-molecule interactions are well known.

Art Unit: 1633

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kelly, Art Unit 1633, whose telephone number is (571) 272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert M. Kelly, Ph.D. Examiner, USPTO, AU 1633 Patents Hoteling Program Mailbox 2C70, Remsen Building

(571) 272-0729